



# **AM/FM Stereo Auto Reverse Cassette Player with Built-in Speaker**



**Owner's Manual**  
Please read before using this equipment.

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 **Features**

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Your RadioShack AM/FM Stereo Cassette Player with Built-In Speaker is lightweight, portable, and has a built-in speaker. You can enjoy cassette tapes or the radio with others through the mono speaker, or you can connect stereo headphones (not supplied) for private stereo listening.

**Auto Reverse** — automatically and continuously plays the second side of a tape when the first side ends.

**Built-In Speaker** — lets you enjoy the radio or cassette tape with others.

**Extended Bass System** — lets you increase your music's bass sound.

**Three Power Sources** — let you power the cassette player from two AA batteries, standard AC power, or DC power.

**Removable Belt Clip** — allows hands-free carrying so you take the cassette player anywhere you go.

## **FCC INFORMATION**

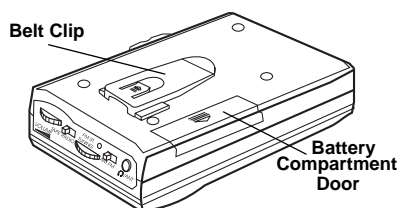
Your cassette player might cause TV or radio interference even when it is operating properly. To determine whether your cassette player is causing the interference, turn off your cassette player. If the interference goes away, your cassette player is causing the interference. Try to eliminate the interference by:

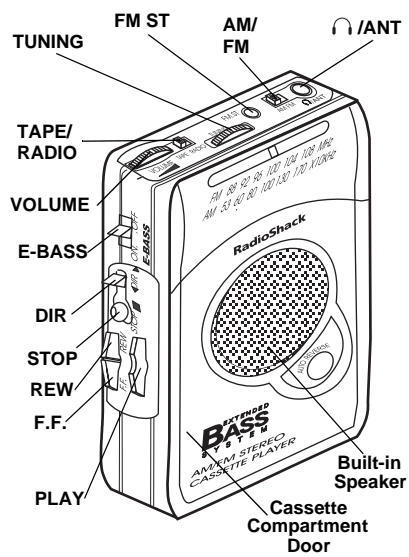
- moving your cassette player away from the receiver

- connecting your cassette player to an outlet that is on a different electrical circuit from the receiver
- contacting your local RadioShack store for help

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## **□ A Quick Look at Your Cassette Player**





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## **Preparation**

### **POWER SOURCES**

You can power the cassette player from any of the following:

- internal batteries
- standard AC power (using an optional AC adapter)
- vehicle battery power (using an optional DC adapter)

### **Using Batteries**

Your AM/FM Stereo Cassette Player requires 2 AA batteries (not supplied) for power. For the best performance and

longest life, we recommend RadioShack alkaline batteries.

**Cautions:**

- Use only fresh batteries of the required size and recommended type.
  - Do not mix old and new batteries, different types of batteries (standard, alkaline, or rechargeable), or rechargeable batteries of different capacities.
1. Press down and slide the battery compartment cover in the direction of the arrow, then lift it up.
  2. Install the two batteries on top of the ribbon as indicated by the polarity

symbols (+ and –) marked inside the compartment.

3. Close the cover.

When the volume weakens or the sound distorts, replace the batteries.

**Warning:** Dispose of old batteries promptly and properly. Do not burn or bury them.

**Caution:** If you do not plan to use batteries in the cassette player for a week or more, remove the batteries. Batteries can leak chemicals that can destroy electronic parts.

## Using AC or DC Power

You can power the cassette player using a regulated 3V 300mA AC or DC adapter

and a size H Adaptaplug™ adapter (neither supplied). Both adapters and the Adaptaplug are available at your local RadioShack store.

**Cautions:**

- You must use a Class 2 AC or DC adapter that supplies 3 volts and delivers at least 300 milliamps. Its center tip must be set to positive, and its plug must correctly fit the cassette player's **DC 3V** jack. Using an adapter that does not meet these specifications could seriously damage the cassette player or the adapter.
- Always connect the AC or DC adapter to the cassette player before you connect it to the power source. When you finish, disconnect the

adapter from AC or DC power before you disconnect it from the cassette player.

1. Set the adapter's voltage switch to 3V.
2. Connect the Adaptaplug to the AC or DC adapter's cord so the tip reads TIP +.
3. Insert the barrel plug into the cassette player's **DC 3V** jack. This disconnects internal batteries.
4. Depending on the type of adapter you are using, plug the other end of the adapter into a standard AC outlet or a 12V power source.

## USING THE BELT CLIP

For hands-free carrying, slide the belt clip over your belt.

To remove the belt clip, lift the tab at the point marked **PULL RELEASE**, then slide the clip in the direction of the arrow.


To replace the belt clip, place it below and between the two guides on the back of the player. Then slide the clip in the opposite direction from the arrow until it snaps into place.

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## **Operation**

### **CONNECTING HEADPHONES/SPEAKERS**

You can enjoy the cassette player through its built-in monaural speaker. Or, you can connect stereo headphones or a pair of amplified speakers (neither supplied) with a  $\frac{1}{8}$ -inch (3.5 mm) stereo plug into the /ANT jack. Your local RadioShack store sells a wide variety of stereo headphones and amplified speakers.

### **Listening Safety**

Follow these guidelines to protect your hearing, when you use headphones.

- Set the volume to the lowest setting before you begin listening. After you begin listening, adjust the volume to a comfortable level.
- Do not listen at extremely high volume levels. Extended high-volume listening can lead to permanent hearing loss.
- Once you set the volume, do not increase it. Over time, your ears adapt to the volume level, so a volume level that does not cause discomfort might still damage your hearing.


### **Traffic Safety**

Do not wear headphones while operating a motor vehicle or riding a bicycle. This

can cause a traffic hazard and is illegal in some areas.

Even though some headphones are designed to let you hear outside sounds when you listen at normal volume levels, they still present a traffic hazard.

## PLAYING THE RADIO

1. Insert FM antenna plug (supplied) into the /ANT jack.
2. Set **TAPE/RADIO** to **RADIO**.
3. Set **AM/FM** to the desired band (**AM** or **FM**).
4. Adjust **VOLUME** to a comfortable sound level.
5. Rotate **TUNING** to select the station.

**Note:** The FM stereo indicator lights when you select the FM band and receive a broadcast in stereo.

6. Set **E-BASS** to **ON** for an enhanced bass effect or **OFF** for normal bass sound.
7. Set **RADIO/TAPE** to **TAPE** to turn off the radio.

## **PLAYING A CASSETTE TAPE**

1. Take up any slack in the tape by turning the cassette's hub with a pencil. Do not touch the exposed tape.
2. Pull and open the cassette compartment door.

3. With its open edge facing up, insert the cassette tape into the cassette guides.
4. Close the compartment door.
5. Set **TAPE/RADIO** to **TAPE**.
6. Press ◀ **PLAY** ▶ . The tape begins play.

**Note:** When the tape finishes playing one side, it automatically reverses direction and plays the other side. To manually change the tape direction, slide ◀ **DIR** ▶ to its other position.

7. Adjust **VOLUME** to the desired listening level.

8. Set **E-BASS** to **ON** for an enhanced bass effect, or to **OFF** for normal bass sound.
9. To stop playback, press **STOP**.

### Using Fast-Forward and Rewind

To fast forward or rewind the tape, press **REW** **▶▶** or **◀◀** **FF**. The following table shows which button to press, based on the current setting of the **◀ DIR ▶** switch.

◀ DIR ▶ setting	To Fast- Forward	To Rewind
▶	▶▶	◀◀
◀	◀◀	▶▶

When the cassette player reaches the desired portion of the tape, press **STOP**. Then press ◀ **PLAY** ▶ to resume playback.

## **CARE**

Keep the cassette player dry; if it gets wet, wipe it dry immediately. Use and store the cassette player only in normal temperature environments. Handle the cassette player carefully; do not drop it. Keep the cassette player away from dust and dirt, and wipe it with a damp cloth occasionally to keep it looking new.

Modifying or tampering with the cassette player's internal components can cause a malfunction and invalidate its warranty. If your cassette player is not performing as it should, take it to your local RadioShack store for assistance.

## **TAPE TIPS**

Do not expose cassette tapes to high temperatures, high humidity, dust or dirt, or motors, transformers, or other sources of strong magnetic fields.

### **Restoring Tape Tension and Sound Quality**

After you play a cassette tape several times, the tape might become tightly wound on the reels. This can cause playback sound quality to deteriorate.

To restore the sound quality, fast-forward the tape from the beginning to the end of one side, then completely rewind it. Then loosen the tape reel by gently tapping each side of the cassette's outer shell on a flat surface.

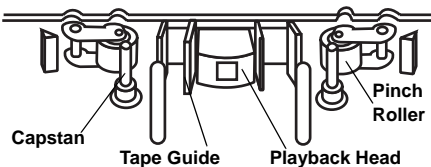
**Caution:** Be careful not to damage the cassette when tapping it. Do not touch the exposed tape or allow any sharp objects near the cassette.

### **Cleaning the Tape Handling Parts**

Dirt, dust, or particles of the tape's coating can build up on the tape heads and other parts that the tape touches. This can greatly reduce the performance of the cassette player. To prevent noise and poor high frequency response, clean the tape handling parts after every 20 hours of use. Tape head-cleaning supplies are available at your local RadioShack store.

1. Remove the batteries and disconnect any other power sources.

2. Pull open the cassette compartment door, remove any cassette tape inside and set **TAPE/RADIO** to **TAPE**.
3. Press **PLAY** to expose the playback head.
4. Use a cotton swab dipped in tape head-cleaning solution, or denatured alcohol, to gently clean the capstans, pinch rollers, play head, and tape guides.



5. When you finish cleaning, press **STOP** and close the compartment. Reconnect power.

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## **Specifications**

### **RADIO**

#### **AM:**

Sensitivity at 20 dB S/N ..... 1000 $\mu$ V/m

Selectivity  $\pm$  10kHz ..... 18dB

Frequency Range ..... 530–1710 kHz

Headphone Output

power @ 10% THD ..... 15 mW

Speaker Output

Power @ 10% THD ..... 30 mW

#### **FM:**

I.H.F. Usable Sensitivity ..... 10 $\mu$ V

Practical Max. Output Power at

10% THD ..... 5 mW

Selectivity  $\pm$  400 kHz ..... 20dB

Frequency Range ..... 88–108 MHz

### **CASSETTE PLAYER**

Tape System ..... 4-Track, Stereo  
Tape Speed .... 47.6 mm ( $1\frac{7}{8}$  in.) per Second  
Frequency Response ....  $\pm 6$  dB, 125–6300 Hz  
Signal-to-Noise Ratio ..... 45dB  
Wow and Flutter (WRMS) ..... 0.25%

### **GENERAL**

Power Requirements ..... 3 Volts DC  
(Two AA Batteries)  
12V DC with optional DC Adapter  
120V AC with optional AC Adapter  
Battery Life ..... Approximately 12 Hours  
Dimensions (HWD) .....  $5 \times 3\frac{5}{8} \times 1\frac{13}{16}$  inch  
(127  $\times$  92  $\times$  46 mm)  
Weight (Without Batteries) ..... 6.9 oz ( 195 g)

Specifications are typical; individual units  
might vary. Specifications are subject to  
change and improvement without notice.

### **Limited Ninety-Day Warranty**

This product is warranted by RadioShack against manufacturing defects in material and workmanship under normal use for ninety (90) days from the date of purchase from RadioShack company-owned stores and authorized RadioShack franchisees and dealers. EXCEPT AS PROVIDED HEREIN, RadioShack MAKES NO EXPRESS WARRANTIES AND ANY IMPLIED WARRANTIES, INCLUDING THOSE OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, ARE LIMITED IN DURATION TO THE DURATION OF THE WRITTEN LIMITED WARRANTIES CONTAINED HEREIN. EXCEPT AS PROVIDED HEREIN, RadioShack SHALL HAVE NO LIABILITY OR RESPONSIBILITY TO CUSTOMER OR ANY OTHER PERSON OR ENTITY WITH RESPECT TO ANY LIABILITY, LOSS OR DAMAGE CAUSED DIRECTLY OR INDIRECTLY BY USE OR PERFORMANCE OF THE PRODUCT OR ARISING OUT OF ANY BREACH OF THIS WARRANTY, INCLUDING, BUT NOT LIMITED TO, ANY DAMAGES RESULTING FROM INCONVENIENCE, LOSS OF TIME, DATA, PROPERTY, REVENUE, OR PROFIT OR ANY INDIRECT, SPECIAL, INCIDENTAL, OR CONSEQUENTIAL DAMAGES, EVEN IF RadioShack HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

Some states do not allow limitations on how long an implied warranty lasts or the exclusion or limitation of incidental or consequential damages, so the above limitations or exclusions may not apply to you.

In the event of a product defect during the warranty period, take the product and the RadioShack sales receipt as proof of purchase date to any RadioShack store. RadioShack will, at its option, unless otherwise provided by law: (a) correct the defect by product repair without charge for parts and labor; (b) replace the product with one of the same or (continued)

(continued) similar design; or (c) refund the purchase price. All replaced parts and products, and products on which a refund is made, become the property of RadioShack. New or reconditioned parts and products may be used in the performance of warranty service. Repaired or replaced parts and products are warranted for the remainder of the original warranty period. You will be charged for repair or replacement of the product made after the expiration of the warranty period.

This warranty does not cover: (a) damage or failure caused by or attributable to acts of God, abuse, accident, misuse, improper or abnormal usage, failure to follow instructions, improper installation or maintenance, alteration, lightning or other incidence of excess voltage or current; (b) any repairs other than those provided by a RadioShack Authorized Service Facility; (c) consumables such as fuses or batteries; (d) cosmetic damage; (e) transportation, shipping or insurance costs; or (f) costs of product removal, installation, set-up service adjustment or reinstallation.

This warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

RadioShack Customer Relations, 200 Taylor Street, 6th Floor,  
Fort Worth, TX 76102

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RadioShack Corporation  
Fort Worth, Texas 76102

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